United States Patent and Trademark Office

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

020322

7590

03/24/2004

SNELL & WILMER ONE ARIZONA CENTER 400 EAST VAN BUREN PHOENIX, AZ 850040001 EXAMINER

NGUYEN, HIEN N

PAPER NUMBER

ART UNIT

2824

DATE MAILED: 03/24/2004

	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
•	09/856,847	08/22/2001	Akihiro Odagawa	29288.0800	4739

TITLE OF INVENTION: MAGNETORESISTANCE EFFECT MEMORY DEVICE AND METHOD FOR PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	06/24/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>	(703) 746-4000	,	
INSTRUCTIONS: This for appropriate. All further cor indicated unless corrected I maintenance fee notification	rm should be used for trans respondence including the I below or directed otherwise	smitting the ISSUE FE Patent, advance orders a in Block 1, by (a) spec			ired). Blocks 1 through 4 s will be mailed to the current ; and/or (b) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for
V-10-10-10-10-10-10-10-10-10-10-10-10-10-	CE ADDRESS (Note: Legibly mark-up	with any corrections or use Blo	ock 1)	Note: A certificate of	mailing can only be used for	or domestic mailings of the
				Fee(s) Transmittal. The papers. Each additional	is certificate cannot be used al paper, such as an assignment	for any other accompanying ent or formal drawing, must
020322 75	590 03/24/2004			have its own certificat	al paper, such as an assignme e of mailing or transmission.	.
SNELL & WILM				Се	rtificate of Mailing or Trans	smission
ONE ARIZONA C				States Postal Service	with sufficient postage for fir	st class mail in an envelope
400 EAST VAN B				addressed to the Mai transmitted to the USF	nis Fee(s) Transmittal is bein with sufficient postage for fir il Stop ISSUE FEE address TO, on the date indicated bel	above, or being facsimile low.
PHOENIX, AZ 850	0040001			<u> </u>	<u> </u>	(Depositor's name)
						(Signature)
						(Date)
					LATTORNITH POCKETING	CONTRACTONING
APPLICATION NO.	FILING DATE		NAMED INVEN		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/856,847	08/22/2001	A	Akihiro Odagawa	1	29288.0800	4739
TITLE OF INVENTION: M	IAGNETORESISTANCE EI	FFECT MEMORY DEV	VICE AND MET	HOD FOR PRODUCI	NG THE SAME	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PU	IBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$0	\$1330	06/24/2004
EXAM	IINER	ART UNIT	CI	ASS-SUBCLASS		
NGUYEN	, HIEN N	2824		365-158000	-	
	e address or indication of "Fe	, 1		the patent front page,		
CFR 1.363).				3 registered patent a atively, (2) the name		
☐ Change of corresponde Address form PTO/SB/12	ence address (or Change of C 22) attached.	fir	m (having as a	member a registered	attorney or 2	
☐ "Fee Address" indicati	ion (or "Fee Address" Indicat or more recent) attached. Use	ion form att	torneys or agent	mes of up to 2 regists. If no name is liste	tered patent d, no name 3	
Number is required.	······································	Wi	ill be printed.			
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON THE F	PATENT (print o	or type)		
been previously submitte	PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)					
	e assignee category or catego			🗅 individual 🕒	corporation or other private g	roup entity 🔾 government
4a. The following fee(s) are	enclosed:	•	ment of Fee(s):		alaaa d	
☐ Issue Fee				ount of the fee(s) is en- card. Form PTO-2038		•
☐ Publication Fee ☐ Advance Order - # of	Copies		•		harge the required fee(s), or	credit any overnavment, to
		Depo	osit Account Nu	mber	(enclose an extra c	copy of this form).
74 1 1 101 1 1		(D-4-)		ī		
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and other than the applicant; interest as shown by the re	d Publication Fee (if require a registered attorney or ago cords of the United States Pa	ed) will not be accepte ent; or the assignee or tent and Trademark Off	d from anyone other party in			
This collection of information obtain or retain a benefit application. Confidentiality estimated to take 12 minus completed application for case. Any comments on suggestions for reducing the patent and Trademark 22313-1450. DO NOT SEND TO: Commissioner	ation is required by 37 CFR by the public which is to fig is governed by 35 U.S.C. I test to complete, including gram to the USPTO. Time will the amount of time your this burden, should be sent to Office, U.S. Department EEND FEES OR COMPLE for Patents, Alexandria, Virg	1.311. The information le (and by the USPTO 22 and 37 CFR 1.14. The thering, preparing, and 1 vary depending upon equire to complete this of the Chief Information of Commerce, Alexar TED FORMS TO THE ginia 22313-1450.	n is required to to process) an his collection is submitting the the individual is form and/or n Officer, U.S. ndria, Virginia IS ADDRESS.			
collection of information u	eduction Act of 1995, no panless it displays a valid OM	3 control number.	respond to a			



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/856,847	09/856,847 08/22/2001		Akihiro Odagawa	29288.0800	4739	
020322 7590 03/24/2004			EXAM	EXAMINER		
	SNELL & WILMER			NGUYEN	NGUYEN, HIEN N	
ONE ARIZON 400 EAST VA		Κ.		ART UNIT	PAPER NUMBER	
PHOENIX, AZ	85004000	40001		2824		
				DATE MAILED: 03/24/2004	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 224 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 224 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	A multipation No.	A 11 (-)	
	Application No.	Applicant(s)	
Notice of Allowability	09/856,847	ODAGAWA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Hien N Nguyen	2824	pw
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the community or other appropriate communities. This application is sub-	nis application. If not includ cation will be mailed in due	ed course. THIS
1. $igotimes$ This communication is responsive to <u>The Interview and the</u>	e New Fax Amendment filed or	<u>1 3/5/4</u> .	
2. X The allowed claim(s) is/are <u>1-39,50-52,54-56,58-60 and 63</u>	<u>2-64</u> .		
3. $igotimes$ The drawings filed on <u>25 May 2001</u> are accepted by the E	xaminer.		
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the deposit of the priority documents and the deposit of the priority documents and the deposit of the priority documents and the deposit of the priority documents have a priority documents and the polarity documents and the polarity documents are comment regarding REQUIREMENT.	e been received. e been received in Application of the communication to file a MENT of this application. Initted. Note the attached EXAM es reason(s) why the oath or do st be submitted. Son's Patent Drawing Review (comment or in the comment of the header according to 37 CFR application of BIOLOGICAL MATER	No In this national stage application this national stage application this national stage application to the complying with the result. INER'S AMENDMENT or Neclaration is deficient. PTO-948) attached the Office action of drawings in the front (not the 1.121(d).	quirements NOTICE OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Sum Paper No./Ma 7. Examiner's An 8. Examiner's St 9. Other	ail Date 3/5/04. nendment/Comment atement of Reasons for Allo RICHARD ELMS	
	Supervi Techi	SORY PATENT EXAMINER VOLOGY CENTER 2800	-

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

	Application No.	Applicant(s)					
Interview Summary	09/856,847	ODAGAWA ET AL.					
interview Summary	Examiner	Art Unit					
	Hien N Nguyen	2824					
All participants (applicant, applicant's representative, PTO personnel):							
(1) <u>Hien N Nguyen</u> .	(3)						
(2) Mr. Patrick L. Mixon.	(4)						
Date of Interview: <u>05 March 2003</u> .							
Type: a)⊠ Telephonic b)⊡ Video Conference c)⊡ Personal [copy given to: 1)⊡ applicant 2	2) applicant's representative	e]					
Exhibit shown or demonstration conducted: d) Yes	e)⊠ No.	· · · · · · · · · · · · · · · · · · ·					
Claim(s) discussed: <u>28</u> .							
Identification of prior art discussed: None.	Identification of prior art discussed: <u>None</u> .						
Agreement with respect to the claims f) \boxtimes was reached. g) \square was not reached. h) \square N/A.							
Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: <u>The Applicant agree to amount of Claim 28 as shown on the Fax of new amendment.</u>							
(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)							
THE FORMAL WRITTEN REPLY TO THE LAST OFFICE A INTERVIEW. (See MPEP Section 713.04). If a reply to the GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR FORM, WHICHEVER IS LATER, TO FILE A STATEMENT Summary of Record of Interview requirements on reverse significant contents.	last Office action has already THE MAILING DATE OF THIS OF THE SUBSTANCE OF TH	been filed, APPLICANT IS S INTERVIEW SUMMARY					
	11 .						

U.S. Patent and Trademark Office PTOL-413 (Rev. 04-03)

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by
 attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does
 not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
 - (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.